

Title (en)

TOOL WITH TORQUE-ACTUATED END EFFECTOR

Title (de)

WERKZEUG MIT DREHMOMENTBETÄTIGTEM ENDEFFEKTOR

Title (fr)

OUTIL AVEC EFFECTEUR TERMINAL ACTIONNÉ PAR COUPLE

Publication

EP 3830447 A1 20210609 (EN)

Application

EP 19724726 A 20190527

Priority

- EP 18175585 A 20180601
- EP 2019063687 W 20190527

Abstract (en)

[origin: WO2019229002A1] Provided is a system comprising a tool (50) and a stator unit (500). The tool (50) comprises an instrument (100, 102) having a proximal end (20) and a distal (40) end, an end effector (300) at the distal end (40) actuated by torque, and a rotor unit (400) body (410) having at least two cammed surfaces to provide the torque. The stator unit (500) comprises a plurality of stator pushers (530-Ua, 530-Va, 530-Wa, 530-Ub, 530-Vb, 530- Wb, 530-Uc, 530-Vc, 530-Wc) configured for movement in a direction radial to a centre of rotation (405) of the body (410) of the rotor unit (400) and for the application of the radial force, whereby movement of the stator pushers induces rotation of the body (410) around the axis of rotation (210).

IPC 8 full level

F16H 49/00 (2006.01); **F16H 25/06** (2006.01)

CPC (source: EP US)

A61B 34/30 (2016.02 - EP US); **B25J 9/102** (2013.01 - US); **B25J 9/1633** (2013.01 - US); **B25J 15/0019** (2013.01 - EP); **F16H 25/06** (2013.01 - EP); **A61B 2017/00477** (2013.01 - EP); **A61B 2034/301** (2016.02 - US); **A61B 2090/0813** (2016.02 - EP)

Citation (search report)

See references of WO 2019229002A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

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